

AMENDMENT TO THE CLAIMS

1-5. (Canceled)

6.(Currently Amended) The apparatus of claim 23, wherein the tray holds a plurality of cup impactor devices, said cup impactor devices each having an impaction surface on an interior bottom of the cup bodies, and further —— A method of cleaning a plurality of impactor components having impaction surfaces which are enclosed, including providing a manifold overlying the impaction surfaces and having openings for injecting liquid into each of the cup bodies an enclosure; including the impaction surfaces, a draining for draining the liquid from each cup body after washing, and a passageway for providing a drying fluid in the manifold open to each cup body to provide drying fluid to the enclosure for a plurality of such impaction surfaces simultaneously while held in the tray a common carrier.

7.(Currently Amended) The apparatus method-of claim 6, and seals for wherein the impaction surfaces are part of a cup shaped component, and sealing each of the cup shaped devices relative to a the manifold carrying ducts for introducing liquid, providing a drain, and introducing drying fluid.

8.(Currently Amended) The apparatus method-of claim 6, wherein the openings for injecting liquid open to including providing a single manifold having passageways for liquid and gas leading to each of the impaction surfaces.

9-14. (Canceled)

15.(Previously Presented) The apparatus of claim 23 wherein the cup impactor devices hold particles on impaction surfaces of the cup impactor devices, after the particles have been classified as to size in an impactor, further comprising a support having a plurality of receptacles for receiving the tray and cup impactor devices carrying the particles, said support being mounted for movement,

and an overlying cover on the support over the tray and cup impactor devices, the cover including openings for introducing a solvent to immerse each of the impaction surfaces.

16.( Previously Presented) The apparatus of claim 15, wherein said cup impactor devices comprise individual impactor cups, and wherein said support holds individual impactor cups having the impaction surfaces on the interior thereof, and a clamp to clamp the cover against the cups in position in receptacles of the support.

17.( Previously Presented) The apparatus of claim 16, wherein each of the cups has a flange around the periphery thereof, the tray openings permitting a majority of the cup to pass through the openings and so the tray supports the cup on the flange, the support supporting the tray with the cups protruding into the receptacles of the support, the cover engaging the flanges of the cups and holding the cups, the tray, and the support as a unit.

18.(Original) The apparatus of claim 17 and seals around the cups engaging the flange and sealing the cups relative to the cover.

19.(Original) The apparatus of claim 18, wherein the cover has a plenum chamber open to each of the cups.

20.(Currently Amended) The apparatus according to claim 23 further comprising A sample recovery station for recovering samples from a plurality of impactor surfaces having classified particles on the surfaces, comprising a support frame having a plurality of openings, a tray for supporting a plurality of cups with portions of the cups protruding from the plane of the tray, thea support frame having a surface holding the tray with the cups bodies in position in receptacles in the support frame, a manifold cover held relative to the support frame and including recesses overlying each of the cups bodies, a vial holding bore formed in the manifold traycover opening to each recess, and each vial holding bore having an axis that is inclined relative to the plane of the tray in a first

direction, a connecting passageway ~~bore~~ adjacent an edge of ~~the~~ each recess in the manifold cover opening to the respective vial holding bores for the vial, and each connecting passageway having an axis generally perpendicular to the axis of the respective vial holding bore, whereby rotating the support about a central axis causes the connecting passageway to drain the cups into the vial holding bores for receiving samples of materials in the cup impactor devices on the tray.

21.( Currently Amended) The apparatus~~sample recovery device~~ of claim 20, wherein said manifold cover contains passageways for introduction of liquid into the recesses.

22.( Currently Amended) The apparatus~~sample recovery device~~ of claim 20, wherein said manifold cover includes passageways for permitting discharge of gases and liquids from the recesses in the manifold cover, and passageways for permitting the introduction of a gas into the recesses of the manifold cover.

23.( Currently Amended) An apparatus for handling cup ~~shaped~~-impactor devices comprising a tray having openings for said cup impactor devices, said cup impactor devices each having a body that fits through the openings and flanges that engage surface portions of the tray around the openings and prevents~~s~~ the entire cup impactor device from passing through the openings, the body of the respective cup impactor device extending through the tray.

24.(Original) The apparatus of claim 23, wherein said tray comprises a generally flat plate with the openings therethrough, and the flanges of the cups being supported on the flat plate.

25.(Original) The apparatus of claim 23 and a cover member for forming a manifold over said tray and cups, said cover member having a passageway that extends transversely across all of the cups, and openings from the passageway to each of the cups, the passageway being adapted to be fitted to a liquid cleaning material source.

26.(Original) The apparatus of claim 25, wherein said cover has a second passageway open to each of the cups on the tray, and the second passageway being connected to a source of a gaseous fluid.

27.(Original) The apparatus of claim 23 and a cover manifold for said tray comprising a plenum chamber individually open to each of the cups, and an opening above each of the cups for introducing a coating material, said tray being adapted to be rocked about a longitudinal axis with the coating material in place, and the plenum chamber being connected to a source of gaseous fluid for eliminating vapors from the coating material.

28-32. (Canceled)

33.(Currently Amended) The apparatus~~method~~ of claim 6 including the steps of adding a quantity of an anti-bounce coating material ~~into each cup to covering~~ the impaction surfaces, and providing a flow of drying fluid over the impaction surfaces to remove vapors from solvents in the ~~coating~~.

34.( Currently Amended) The method~~apparatus~~ of claim 33, including a support for mounting the manifold for pivoting about a longitudinal axis of the manifold to permit rocking the cup impactor devices, so to cause the coating material to flows across the impaction surfaces while drying.